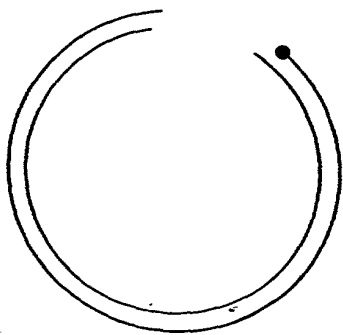


LINEAR VECTORS



CIRCULAR VECTORS

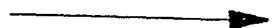
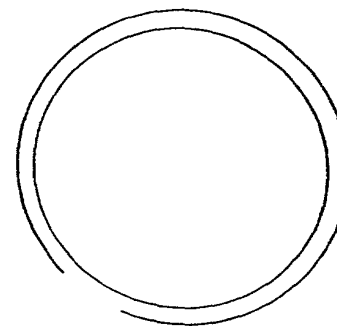
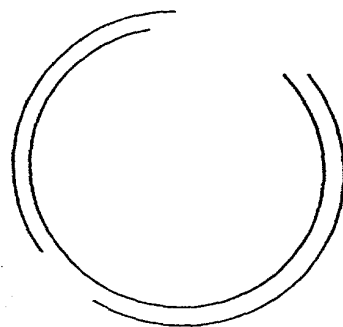
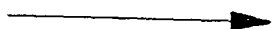
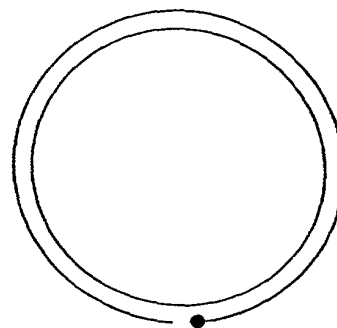
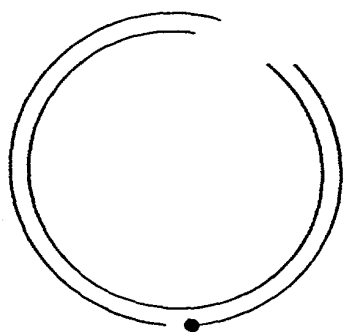
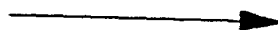
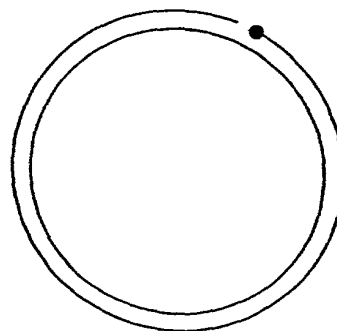
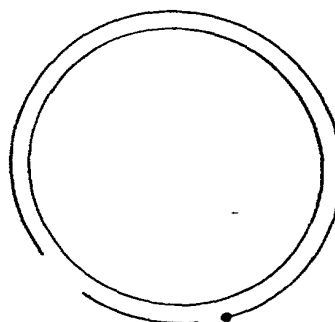
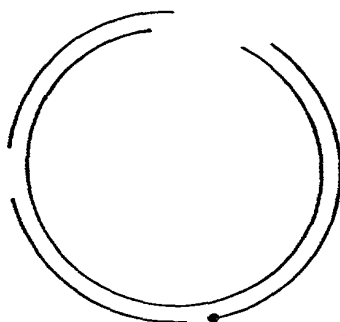
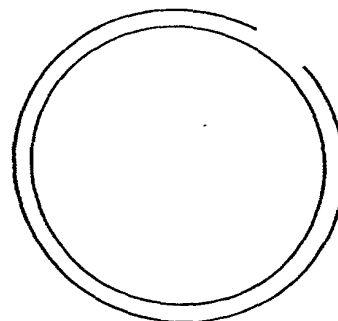
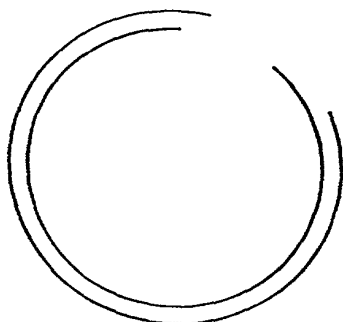
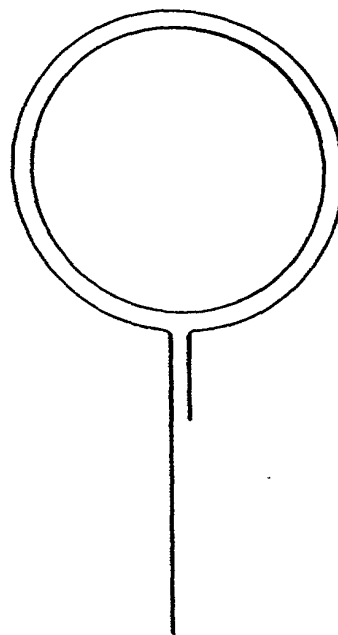
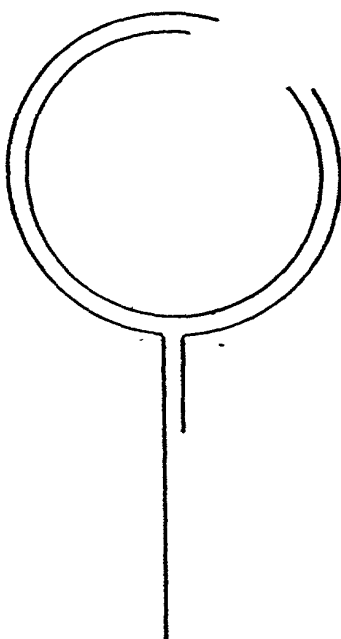
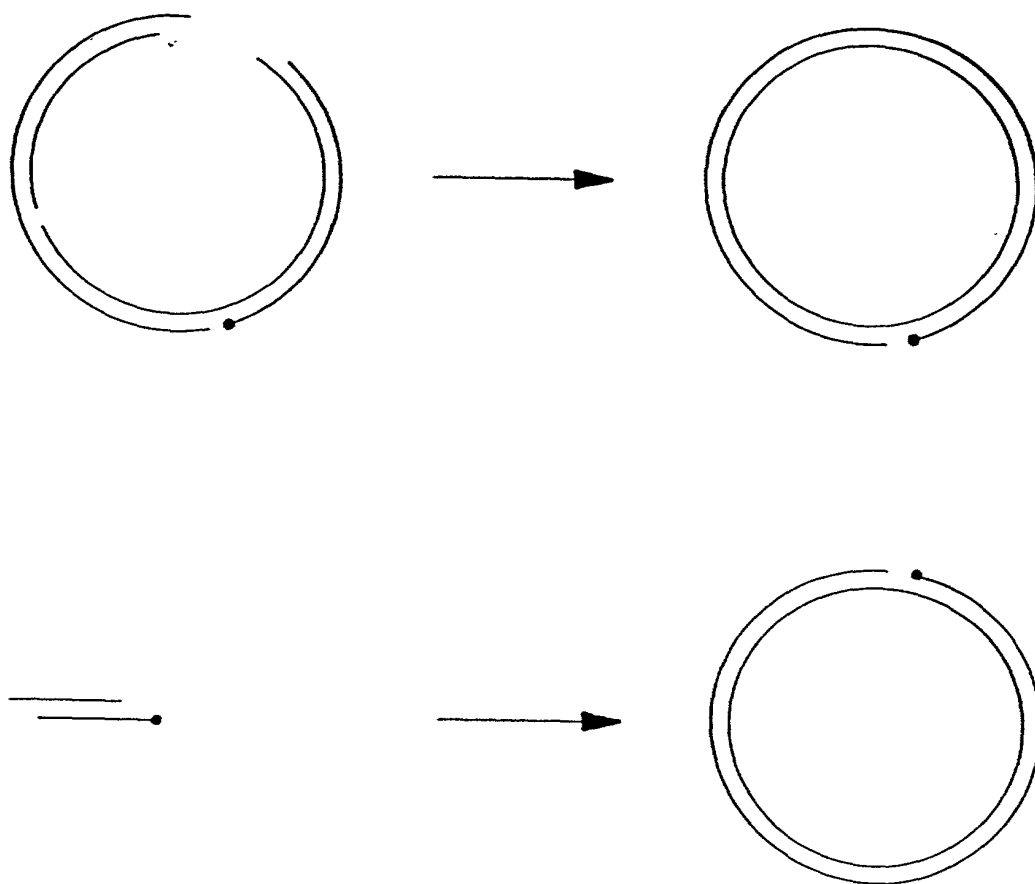


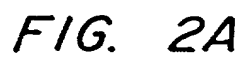
FIG. 1A



**Abstract**—The purpose of this study was to determine if there were differences in the prevalence of musculoskeletal disorders among different types of jobs. The subjects were 600 men employed by a large manufacturing company. They were divided into three groups based on their job type: manual labor, semi-skilled work, and professional/managerial work. Data were collected through self-reported questionnaires and physical examinations. The results showed that the prevalence of musculoskeletal disorders was highest among manual laborers, followed by semi-skilled workers, and lowest among professionals/managers. This suggests that the nature of the job significantly influences the risk of developing such disorders.

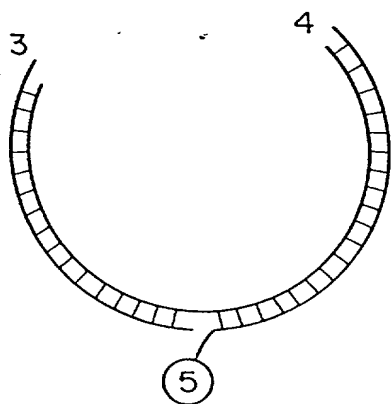
FIG. 1C







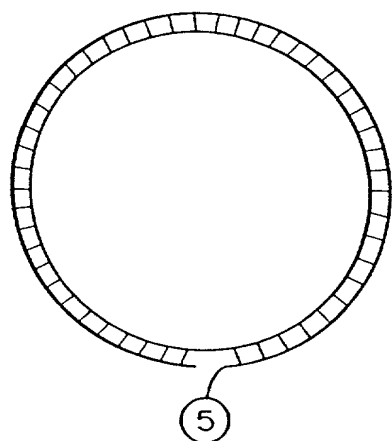
INSERT



VECTOR

1, 3 ARE COMPATIBLE  
STICKY ENDS

2, 4 ARE BLUNT ENDS



INSERT HAS BEEN LIGATED  
INTO VECTOR

5 IS BIOTIN OR ANY HAPTEN

*FIG. 2B*

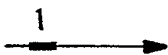
Variable	Mean	SD	Min	Max	Skewness	Kurtosis	Normality
Age	35.5	12.5	18	65	0.1	3.2	0.95
Gender	1.2	0.4	1	2	0.0	3.0	0.98
Marital Status	1.5	0.5	1	3	0.2	3.1	0.96
Education	12.5	2.5	9	16	0.3	3.3	0.94
Income	15000	8000	5000	30000	0.4	3.4	0.93
Occupation	2.5	1.5	1	5	0.5	3.5	0.92
Health Status	1.8	0.6	1	3	0.1	3.2	0.95
Stress Level	2.2	0.8	1	4	0.2	3.1	0.96
Life Satisfaction	3.5	1.0	1	5	0.3	3.3	0.94
Resilience	2.8	0.9	1	4	0.4	3.4	0.93
Optimism	3.2	0.8	1	4	0.2	3.1	0.96
Emotional Stability	2.5	0.7	1	4	0.1	3.2	0.95
Self-Esteem	3.0	0.9	1	4	0.3	3.3	0.94
Life Satisfaction	3.5	1.0	1	5	0.3	3.3	0.94
Resilience	2.8	0.9	1	4	0.4	3.4	0.93
Optimism	3.2	0.8	1	4	0.2	3.1	0.96
Emotional Stability	2.5	0.7	1	4	0.1	3.2	0.95
Self-Esteem	3.0	0.9	1	4	0.3	3.3	0.94



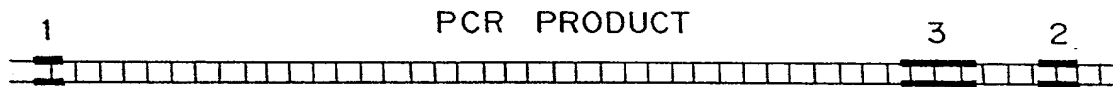
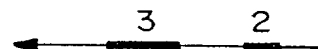
CELLULOSE

FIG. 4

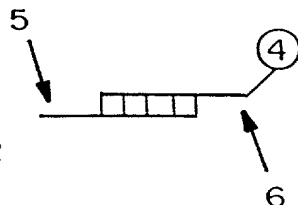
PRIMER



PRIMER



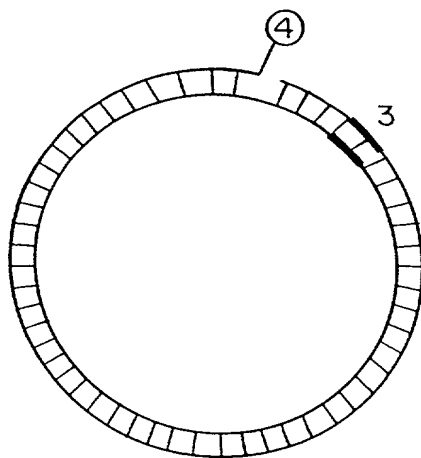
LINKER-ADAPTOR



1, 2, 3 ARE RESTRICTION SITES

5, 6 ARE STICKY ENDS COMPATIBLE WITH 1 AND 2

4 IS BIOTIN OR ANY HAPTEN



DIGESTED PCR PRODUCT LIGATED TO ADAPTOR